

Engineering Interpretations

Building Site Development

Soil properties influence development of building sites, including the selection of the site, the design of the structure, construction, post construction performance, and maintenance. Soil limitation ratings of slight, moderate, and severe are given for shallow excavations, dwellings with and without basements, small commercial buildings, local roads and streets, and lawns, landscaping, and golf fairways.

Shallow Excavations

Shallow excavations are trenches or holes dug in the soil to a maximum depth of 5 or 6 feet. They are used for pipelines, sewer lines, telephone and power transmission lines, basements, open ditches, and cemeteries. The ratings are based on the soil properties that influence ease of digging and resistance to sloughing.

Dwellings With or Without Basements

These are single-family houses of three stories or less. The foundation is assumed to be spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or the depth of maximum frost penetration, whichever is deeper, for houses without basements, or at a depth of 7 feet if a basement is constructed. The ratings are based on properties affecting soil strength and settlement under a load, and those that affect excavation and construction costs.

Small Commercial Buildings

Limitation ratings are given for the undisturbed soil on which small commercial buildings of less than three stories without basements are built. The foundation is assumed to be placed on spread footings of reinforced concrete at a depth of 2 feet or the depth of maximum frost penetration, whichever is deeper.

Local Roads and Streets

Limitation ratings are given for the use of soils for construction of improved local roads and streets that have all-weather surfacing, commonly of asphalt, gravel with binder in it, or concrete, and that are expected to carry automobile traffic all year. These roads and streets are graded to shed water, and conventional drainage measures are provided. With the probable exception of the hard surface, roads and streets are built mainly from the soil at hand.

Lawns, Landscaping, and Golf Fairways

The soils are rated for their use in establishing and maintaining turf for lawns and golf fairways and ornamental trees and shrubs for residential type landscaping. The ratings are based on the use of soil material at the location with some land smoothing. Irrigation may or may not be needed and is not a criterion in rating. Traps, trees, roughs, and greens are not considered as part of the golf fairway. The properties considered are those listed that affect plant growth and trafficability after vegetation is established.

This subsection includes:

- **(a) Building Site Development**

Cedar County, Missouri: Detailed Soil Map Legend

Building Site Development

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
40000: Barden-----	Very limited ~ponded (very limited)	1.00	Very limited ~hard bedrock <40" (very limited)	1.00	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~low strength (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00
	~hard bedrock <20" (very limited)	1.00	~ponded (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00
	~soft bedrock <20" (limited)	0.80	~soft bedrock <20" (very limited)	1.00	~soft bedrock <20" (limited)	0.80	~hard bedrock <20" (very limited)	1.00		
40001: Bolivar-----	Very limited ~wetness (very limited)	1.00	Very limited ~ponded (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~ponded (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00	~ponded (wetness) (very limited)	1.00
	~shrink-swell (moderately limited)	0.45	~depth to bedrock (limited)	0.90	~slope (limited)	0.68	~shrink-swell (moderately limited)	0.45	~depth to bedrock (slightly limited)	0.06
40004: Barden-----	Very limited ~shrink-swell (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~low strength (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00
	~ponded (very limited)	1.00	~hard bedrock <40" (very limited)	1.00	~hard bedrock <20" (very limited)	1.00	~shrink-swell (very limited)	1.00	~ponded (wetness) (very limited)	1.00
	~hard bedrock <20" (very limited)	1.00	~ponded (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00		
40005: Sylvania-----	Very limited ~shrink-swell (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~low strength (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00
	~ponded (very limited)	1.00	~hard bedrock <40" (very limited)	1.00	~slope (very limited)	1.00	~shrink-swell (very limited)	1.00	~too acid (moderately limited)	0.48
	~hard bedrock <20" (very limited)	1.00	~ponded (very limited)	1.00	~hard bedrock <20" (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~slope (slightly limited)	0.16

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
40006: Barco-----	Very limited ~wetness (very limited) ~ponded (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00 1.00	Very limited ~hard bedrock <40" (very limited) ~ponded (very limited) ~wetness (very limited)	1.00 1.00 1.00 1.00	Very limited ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00 1.00 1.00	Very limited ~ponded (wetness) (very limited) ~wetness (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00 1.00	Very limited ~wetness (very limited) ~ponded (wetness) (very limited) ~depth to bedrock (slightly limited)	1.00 1.00 1.00 0.27
Sylvania-----	Very limited ~shrink-swell (very limited) ~ponded (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00 1.00	Very limited ~hard bedrock <40" (very limited) ~ponded (very limited) ~shrink-swell (limited)	1.00 1.00 1.00 0.69	Very limited ~shrink-swell (very limited) ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00 1.00	Very limited ~shrink-swell (very limited) ~low strength (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00 1.00	Very limited ~ponded (wetness) (very limited) ~too acid (slightly limited)	1.00 1.00 0.24
40007: Eldorado-----	Very limited ~wetness (very limited) ~ponded (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00 1.00	Very limited ~hard bedrock <40" (very limited) ~ponded (very limited) ~soft bedrock <20" (very limited)	1.00 1.00 1.00 1.00	Very limited ~slope (very limited) ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00 1.00	Very limited ~ponded (wetness) (very limited) ~wetness (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00 1.00	Very limited ~wetness (very limited) ~shallow to bedrock (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00 1.00
40008: Parsons-----	Very limited ~shrink-swell (very limited) ~ponded (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00 1.00	Very limited ~wetness (very limited) ~shrink-swell (very limited) ~hard bedrock <40" (very limited)	1.00 1.00 1.00 1.00	Very limited ~shrink-swell (very limited) ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00 1.00	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00 1.00	Very limited ~shallow to bedrock (very limited) ~ponded (wetness) (very limited) ~wetness (limited)	1.00 1.00 1.00 0.99

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
40009: Sylvania-----	Very limited ~shrink-swell (very limited) ~ponded (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~shrink-swell (very limited) ~hard bedrock <40" (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~shrink-swell (very limited) ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~shrink-swell (very limited) ~low strength (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~ponded (wetness) (very limited)	1.00
40010: Collinsville---	Very limited ~hard bedrock <20" (very limited) ~wetness (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <40" (very limited) ~ponded (very limited) ~soft bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <20" (very limited) ~slope (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~shallow to bedrock (very limited) ~droughty (very limited) ~wetness (very limited)	1.00 1.00 1.00
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
44001: Quarles-----	Very limited ~flooding (very limited) ~wetness (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~flooding (very limited) ~wetness (very limited) ~hard bedrock <40" (very limited)	1.00 1.00 1.00	Very limited ~flooding (very limited) ~wetness (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~low strength (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~excess sodium (very limited) ~shallow to bedrock (very limited)	1.00 1.00 1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
46000: Humansville----	Very limited ~wetness (very limited) ~flooding (very limited) ~ponded (very limited)	1.00 1.00 1.00 1.00	Very limited ~flooding (very limited) ~wetness (very limited) ~hard bedrock <40" (very limited)	1.00 1.00 1.00 1.00	Very limited ~flooding (very limited) ~wetness (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00 1.00	Very limited ~low strength (very limited) ~wetness (very limited) ~flooding (very limited)	1.00 1.00 1.00 1.00	Very limited ~wetness (very limited) ~flooding (very limited) ~shallow to bedrock (very limited)	1.00 1.00 1.00 1.00
66000: Moniteau-----	Very limited ~wetness (very limited) ~flooding (very limited) ~ponded (very limited)	1.00 1.00 1.00 1.00	Very limited ~flooding (very limited) ~wetness (very limited) ~hard bedrock <40" (very limited)	1.00 1.00 1.00 1.00	Very limited ~flooding (very limited) ~wetness (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00 1.00	Very limited ~low strength (very limited) ~wetness (very limited) ~flooding (very limited)	1.00 1.00 1.00 1.00	Very limited ~wetness (very limited) ~shallow to bedrock (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00 1.00
66001: Dameron-----	Very limited ~flooding (very limited) ~wetness (very limited) ~ponded (very limited)	1.00 1.00 1.00 1.00	Very limited ~flooding (very limited) ~hard bedrock <40" (very limited) ~ponded (very limited)	1.00 1.00 1.00 1.00	Very limited ~flooding (very limited) ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00 1.00	Very limited ~flooding (very limited) ~low strength (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00 1.00	Very limited ~flooding (very limited) ~wetness (very limited) ~shallow to bedrock (very limited)	1.00 1.00 1.00 1.00
70000: Bona-----	Very limited ~wetness (very limited) ~ponded (very limited) ~soft bedrock <20" (limited)	1.00 1.00 1.00 0.80	Very limited ~ponded (very limited) ~soft bedrock <20" (very limited) ~wetness (very limited)	1.00 1.00 1.00 1.00	Very limited ~ponded (wetness) (very limited) ~wetness (very limited) ~soft bedrock <20" (limited)	1.00 1.00 1.00 0.80	Very limited ~low strength (very limited) ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00 1.00 1.00	Very limited ~wetness (very limited) ~ponded (wetness) (very limited) ~small stones (moderately limited)	1.00 1.00 1.00 0.40

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
70001: Bona-----	Very limited ~wetness (very limited) ~ponded (very limited) ~soft bedrock <20" (limited)	1.00 1.00 0.80	Very limited ~ponded (very limited) ~soft bedrock <20" (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~ponded (wetness) (very limited) ~wetness (very limited) ~soft bedrock <20" (limited)	1.00 1.00 0.80	Very limited ~wetness (very limited) ~ponded (wetness) (very limited) ~small stones (limited)	1.00 1.00 0.75
70002: Alsup-----	Very limited ~shrink-swell (very limited) ~ponded (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <40" (very limited) ~ponded (very limited) ~shrink-swell (limited)	1.00 1.00 1.00	Very limited ~shrink-swell (very limited) ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~ponded (wetness) (very limited) ~too acid (slightly limited) ~small stones (slightly limited)	1.00 0.12 0.06
70003: Alsup-----	Very limited ~ponded (very limited) ~hard bedrock <20" (very limited) ~slope (limited)	1.00 1.00 0.76	Very limited ~hard bedrock <40" (very limited) ~ponded (very limited) ~wetness (limited)	1.00 1.00 0.90	Very limited ~slope (very limited) ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~low strength (very limited) ~ponded (wetness) (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~ponded (wetness) (very limited) ~slope (limited) ~small stones (moderately limited)	1.00 0.63 0.40
70004: Alsup-----	Very limited ~slope (very limited) ~ponded (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~hard bedrock <40" (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~ponded (wetness) (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~excess salts (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
70006: Crelton-----	Very limited ~ponded (very limited) ~hard bedrock <20" (very limited) ~soft bedrock <20" (limited)	1.00 1.00 0.80	Very limited ~wetness (very limited) ~hard bedrock <40" (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited) ~soft bedrock <20" (limited)	1.00 1.00 1.00 0.80	Very limited ~low strength (very limited) ~ponded (wetness) (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00 1.00	Very limited ~shallow to bedrock (very limited) ~ponded (wetness) (very limited) ~wetness (slightly limited)	1.00 1.00 1.00 0.13
70007: Cliquot-----	Very limited ~ponded (very limited) ~hard bedrock <20" (very limited) ~slope (limited)	1.00 1.00 0.76	Very limited ~hard bedrock <40" (very limited) ~ponded (very limited) ~wetness (limited)	1.00 1.00 0.78	Very limited ~slope (very limited) ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~ponded (wetness) (very limited) ~hard bedrock <20" (very limited) ~slope (limited)	1.00 1.00 0.63	Very limited ~ponded (wetness) (very limited) ~slope (limited) ~small stones (moderately limited)	1.00 0.63 0.33
70008: Goss-----	Very limited ~wetness (very limited) ~ponded (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <40" (very limited) ~ponded (very limited) ~soft bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~low strength (very limited) ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~shallow to bedrock (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00
70009: Goss-----	Very limited ~wetness (very limited) ~ponded (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <40" (very limited) ~ponded (very limited) ~soft bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~low strength (very limited) ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~shallow to bedrock (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
70010: Goss-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00
	~wetness (very limited)	1.00	~hard bedrock <40" (very limited)	1.00	~hard bedrock <20" (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~large stones >30% (very limited)	1.00
	~ponded (very limited)	1.00	~ponded (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00
70011: Goss-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00
	~wetness (very limited)	1.00	~hard bedrock <40" (very limited)	1.00	~hard bedrock <20" (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~small stones (very limited)	1.00
	~ponded (very limited)	1.00	~ponded (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00
Moko-----	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~hard bedrock <40" (very limited)	1.00	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00
	~wetness (very limited)	1.00	~ponded (very limited)	1.00	~slope (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~droughty (very limited)	1.00
	~ponded (very limited)	1.00	~soft bedrock <20" (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00
70012: Hoberg-----	Very limited ~ponded (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~low strength (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00
	~hard bedrock <20" (very limited)	1.00	~hard bedrock <40" (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00
	~soft bedrock <20" (limited)	0.80	~ponded (very limited)	1.00	~soft bedrock <20" (limited)	0.80	~hard bedrock <20" (very limited)	1.00	~wetness (slightly limited)	0.28

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
70014: Moko-----	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~hard bedrock <40" (very limited)	1.00	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~slope (very limited)	1.00
	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~shallow to bedrock (very limited)	1.00
	~wetness (very limited)	1.00	~ponded (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~droughty (very limited)	1.00
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
70040: Cliquot-----	Very limited ~shrink-swell (very limited)	1.00	Very limited ~hard bedrock <40" (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00
	~ponded (very limited)	1.00	~ponded (very limited)	1.00	~hard bedrock <20" (very limited)	1.00	~low strength (very limited)	1.00	~too acid (slightly limited)	0.12
	~hard bedrock <20" (very limited)	1.00	~shrink-swell (limited)	0.97	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00		
Bolivar-----	Very limited ~wetness (very limited)	1.00	Very limited ~hard bedrock <40" (very limited)	1.00	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~ponded (very limited)	1.00	~ponded (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~ponded (wetness) (very limited)	1.00
	~hard bedrock <20" (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00	~hard bedrock <20" (very limited)	1.00	~depth to bedrock (moderately limited)	0.53
70041: Goss-----	Very limited ~wetness (very limited)	1.00	Very limited ~hard bedrock <40" (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~low strength (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~ponded (very limited)	1.00	~ponded (very limited)	1.00	~hard bedrock <20" (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00
	~hard bedrock <20" (very limited)	1.00	~soft bedrock <20" (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~ponded (wetness) (very limited)	1.00

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
70042: Goss-----	Very limited ~slope (very limited) ~wetness (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~hard bedrock <40" (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~small stones (very limited) ~wetness (very limited)	1.00 1.00 1.00
70043: Sonsac-----	Very limited ~wetness (very limited) ~ponded (very limited) ~large stones (limited)	1.00 1.00 0.96	Very limited ~hard bedrock <40" (very limited) ~ponded (very limited) ~soft bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~low strength (very limited) ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~large stones >30% (very limited) ~wetness (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00
Moko-----	Very limited ~hard bedrock <20" (very limited) ~wetness (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <40" (very limited) ~ponded (very limited) ~soft bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <20" (very limited) ~slope (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~shallow to bedrock (very limited) ~droughty (very limited) ~wetness (very limited)	1.00 1.00 1.00
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
70044: Sonsac-----	Very limited ~slope (very limited) ~wetness (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~low strength (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~wetness (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
70044 (cont) Moko-----	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~hard bedrock <40" (very limited)	1.00	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~slope (very limited)	1.00
	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~shallow to bedrock (very limited)	1.00
	~wetness (very limited)	1.00	~ponded (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~droughty (very limited)	1.00
70047: Wanda-----	Very limited ~wetness (very limited)	1.00	Very limited ~hard bedrock <40" (very limited)	1.00	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~ponded (very limited)	1.00	~ponded (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~shallow to bedrock (very limited)	1.00
	~hard bedrock <20" (very limited)	1.00	~soft bedrock <20" (very limited)	1.00	~wetness (very limited)	1.00	~hard bedrock <20" (very limited)	1.00	~ponded (wetness) (very limited)	1.00
70048: Alsup-----	Very limited ~shrink-swell (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~low strength (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00
	~ponded (very limited)	1.00	~hard bedrock <40" (very limited)	1.00	~shrink-swell (very limited)	1.00	~shrink-swell (very limited)	1.00	~slope (limited)	0.63
	~hard bedrock <20" (very limited)	1.00	~ponded (very limited)	1.00	~hard bedrock <20" (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~too acid (slightly limited)	0.24
70052: Arnica-----	Very limited ~ponded (very limited)	1.00	Very limited ~hard bedrock <40" (very limited)	1.00	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~low strength (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00
	~hard bedrock <20" (very limited)	1.00	~ponded (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00
	~soft bedrock <20" (limited)	0.80	~soft bedrock <20" (very limited)	1.00	~soft bedrock <20" (limited)	0.80	~hard bedrock <20" (very limited)	1.00	~too acid (slightly limited)	0.18

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
70053: Courtois-----	Very limited ~wetness (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~low strength (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~ponded (very limited)	1.00	~hard bedrock <40" (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00
	~hard bedrock <20" (very limited)	1.00	~ponded (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00	~ponded (wetness) (very limited)	1.00
70054: Cliquot-----	Very limited ~shrink-swell (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00
	~ponded (very limited)	1.00	~hard bedrock <40" (very limited)	1.00	~slope (very limited)	1.00	~low strength (very limited)	1.00	~slope (limited)	0.63
	~hard bedrock <20" (very limited)	1.00	~ponded (very limited)	1.00	~hard bedrock <20" (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~large stones (moderately limited)	0.45
71254: Cotter-----	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~low strength (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~wetness (very limited)	1.00	~hard bedrock <40" (very limited)	1.00	~hard bedrock <20" (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00
	~ponded (very limited)	1.00	~ponded (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~ponded (wetness) (very limited)	1.00
71750: Cleora-----	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00
	~wetness (very limited)	1.00	~hard bedrock <40" (very limited)	1.00	~hard bedrock <20" (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00
	~ponded (very limited)	1.00	~ponded (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~shallow to bedrock (very limited)	1.00

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
73000: Pomme-----	Very limited ~wetness (very limited) ~ponded (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <40" (very limited) ~ponded (very limited) ~soft bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~ponded (wetness) (very limited) ~wetness (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~shallow to bedrock (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00
73003: Ocie-----	Very limited ~shrink-swell (very limited) ~slope (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~ponded (very limited) ~soft bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~shrink-swell (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~low strength (very limited) ~slope (very limited) ~shrink-swell (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~small stones (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00
Gatewood-----	Very limited ~shrink-swell (very limited) ~slope (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <40" (very limited) ~shrink-swell (very limited) ~slope (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~shrink-swell (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~low strength (very limited) ~slope (very limited) ~shrink-swell (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~ponded (wetness) (very limited) ~small stones (limited)	1.00 1.00 1.00
73005: Ocie-----	Very limited ~shrink-swell (very limited) ~ponded (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~shrink-swell (very limited) ~hard bedrock <40" (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~shrink-swell (very limited) ~slope (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~ponded (wetness) (very limited) ~small stones (limited) ~slope (slightly limited)	1.00 1.00 0.04

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
73007: Plato-----	Very limited ~shrink-swell (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00
	~ponded (very limited)	1.00	~shrink-swell (very limited)	1.00	~hard bedrock <20" (very limited)	1.00	~low strength (very limited)	1.00	~ponded (wetness) (very limited)	1.00
	~hard bedrock <20" (very limited)	1.00	~hard bedrock <40" (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (limited)	0.68
73008: Viraton-----	Very limited ~ponded (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~low strength (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00
	~hard bedrock <20" (very limited)	1.00	~hard bedrock <40" (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00
	~soft bedrock <20" (limited)	0.80	~ponded (very limited)	1.00	~soft bedrock <20" (limited)	0.80	~hard bedrock <20" (very limited)	1.00	~wetness (moderately limited)	0.49
73059: Pomme-----	Very limited ~wetness (very limited)	1.00	Very limited ~hard bedrock <40" (very limited)	1.00	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~ponded (very limited)	1.00	~ponded (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~shallow to bedrock (very limited)	1.00
	~hard bedrock <20" (very limited)	1.00	~soft bedrock <20" (very limited)	1.00	~wetness (very limited)	1.00	~hard bedrock <20" (very limited)	1.00	~ponded (wetness) (very limited)	1.00
73075: Hobson-----	Very limited ~ponded (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~hard bedrock <20" (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00
	~hard bedrock <20" (very limited)	1.00	~hard bedrock <40" (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~hard bedrock <20" (very limited)	1.00	~ponded (wetness) (very limited)	1.00
	~soft bedrock <20" (limited)	0.80	~ponded (very limited)	1.00	~soft bedrock <20" (limited)	0.80	~soft bedrock <20" (limited)	0.80	~too acid (moderately limited)	0.54

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
74625: Hartville-----	Very limited ~ponded (very limited) ~hard bedrock <20" (very limited) ~soft bedrock <20" (limited)	1.00 1.00 0.80	Very limited ~wetness (very limited) ~shrink-swell (very limited) ~hard bedrock <40" (very limited)	1.00 1.00 1.00	Very limited ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited) ~soft bedrock <20" (limited)	1.00 1.00 0.80	Very limited ~low strength (very limited) ~ponded (wetness) (very limited) ~hard bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~shallow to bedrock (very limited) ~ponded (wetness) (very limited) ~wetness (moderately limited)	1.00 1.00 0.49
74641: Secesh-----	Very limited ~flooding (very limited) ~wetness (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~flooding (very limited) ~hard bedrock <40" (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~flooding (very limited) ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~flooding (very limited) ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~shallow to bedrock (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00
75375: Horsecreek-----	Very limited ~flooding (very limited) ~wetness (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~flooding (very limited) ~hard bedrock <40" (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~flooding (very limited) ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~flooding (very limited) ~low strength (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~shallow to bedrock (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00
75377: Racket-----	Very limited ~flooding (very limited) ~wetness (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~flooding (very limited) ~hard bedrock <40" (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~flooding (very limited) ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~flooding (very limited) ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~flooding (very limited) ~wetness (very limited) ~shallow to bedrock (very limited)	1.00 1.00 1.00

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
75378: Sturkie-----	Very limited ~flooding (very limited) ~wetness (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~flooding (very limited) ~hard bedrock <40" (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~flooding (very limited) ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~flooding (very limited) ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~flooding (very limited) ~wetness (very limited) ~shallow to bedrock (very limited)	1.00 1.00 1.00
99000: Pits, quarries-	Not rated		Not rated		Not rated		Not rated		Not rated	
99001: Water-----	Not rated		Not rated		Not rated		Not rated		Not rated	
99004: Kanima-----	Very limited ~slope (very limited) ~wetness (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~hard bedrock <40" (very limited) ~ponded (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~hard bedrock <20" (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~small stones (very limited) ~slope (very limited) ~wetness (very limited)	1.00 1.00 1.00
99007: Dam-----	Not rated		Not rated		Not rated		Not rated		Not rated	